



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

**Historical Arts and Casting, Inc.
5580 West Bagley Park Road
West Jordan, UT 84081**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "HACI 2000" Outswing Bronze Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **H222.1008.11**, titled "HACI 2000 Series Bronze Windows", sheets 1 through 8 of 8, dated 02/21/11 with the latest revision dated 03/15/12, prepared by Wolters Engineering, Inc., signed and sealed by Scott Wolters, P. E., bearing the Miami-Dade County Product Control Section stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
3/19/12

NOA No. 11-0602.06
Expiration Date: March 29, 2017
Approval Date: March 29, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **H222.1008.11**, titled "HACI 2000 Series Bronze Windows", sheets 1 through 6 of 6, dated 02/21/11 with the latest revision, dated 03/15/12, prepared by Wolters Engineering, Inc., signed and sealed by Scott Wolters, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of casement window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0222-0701-09**, dated 04/13/10, signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, dated 05/27/11, prepared by Wolters Engineering, Inc., dated 11/01/11, signed and sealed by Scott Wolters, P. E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.11** issued to **Saf-Glas, LLC** for their "**SAF-GLAS Polycarbonate Laminate**", dated 12/27/07, expiring on 12/16/12.

F. STATEMENTS

1. Statement letter of conformance and complying with FBC-2010, issued by Wolters Engineering, Inc., dated 03/05/12, signed and sealed by Scott Wolters, P. E.
2. Statement letter of no financial interest, conformance and complying with FBC-2007, issued by Wolters Engineering, Inc., dated 05/27/11, signed and sealed by Scott Wolters, P.E.
3. Laboratory compliance and addendum letter for Test Report No. **HTL-0222-0701-09**, issued by Hurricane Test Laboratory, LLC, dated 04/13/10 and 10/21/11, both signed and sealed by Vinu J. Abraham, P. E.

G. OTHERS

1. None.

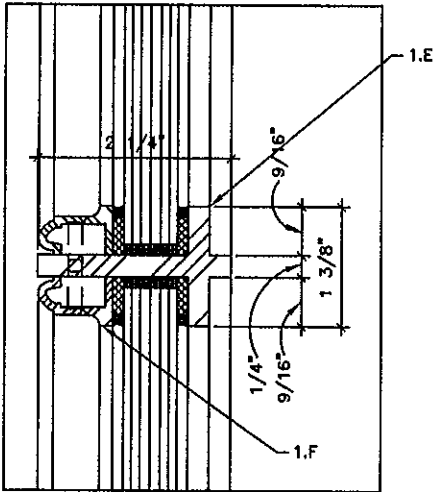


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-0602.06
Expiration Date: March 29, 2017
Approval Date: March 29, 2012

HACI 2000 SERIES
BRONZE OUTSWING CASEMENT WINDOWS

GENERAL NOTES:

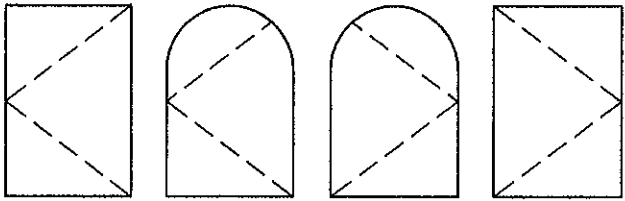
1. THIS APPROVAL APPLIES TO HACI 2000 SERIES IMPACT RESISTANT OUTSWING CASEMENT WINDOWS WHEN CONSTRUCTED AND INSTALLED AS DESCRIBED HEREIN.
2. APPROVED CONFIGURATIONS: SINGLE "X" OUTSWING WITH RECTANGULAR OR ROUND TOP, WITH OR WITHOUT HACI FIXED WINDOWS PER SEPARATE APPROVAL (SEE DETAILS TO THE RIGHT)
3. ALLOWABLE DESIGN PRESSURES: ± 70 PSF
4. THESE WINDOWS HAVE BEEN DESIGNED AND TESTED TO TAS 201, 202, AND 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 AND FBC 2010 INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
5. THESE WINDOWS ARE LARGE AND SMALL MISSILE IMPACT RATED, SHUTTERS ARE NOT REQUIRED.
6. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
7. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
8. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH FBC CHAPTER 20.
10. WIND LOAD ALLOWABLE STRESS INCREASES WERE NOT USED IN THIS APPROVAL. A WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS.
11. WINDOWS SHALL BE GLAZED IN ACCORDANCE WITH GLAZING DETAIL 1, THIS SHEET



GLAZING DESCRIPTION		ALLOWABLE DESIGN PRESSURES
OPTION	MAKEUP	
9/16" SAF-GLAS SECURITY IMPACT GLASS MIAMI-DADE NOA # 07-1116.11	1/4" HEAT STRENGTHENED GLASS / .025 CLEAR FILM / .125 POLYCARBONATE / .025 CLEAR FILM / 1/4" HEAT STRENGTHENED GLASS	$\pm 70 / -70$ PSF

DRAWING INDEX

SHT. NO.	DESCRIPTION
10F8	NOTES, GLAZING DETAIL
20F8	WINDOW ELEVATIONS & BILL OF MATERIALS
30F8	TYPICAL MOUNTING OPTIONS
40F8	SECTION DETAILS
50F8	EXTRUSIONS PROFILES
60F8	DETAILS - HINGE, LEVER LATCH LOCK W/ ROLLERS
70F8	DETAILS - LEVER LATCH LOCK W/ DOGS
80F8	EXPLODED VIEWS



APPROVED CONFIGURATIONS
(NOT SHOWN HERE ARE REQ'D TRUE DIVIDED LITES, SEE ELEV. SHT. 2)

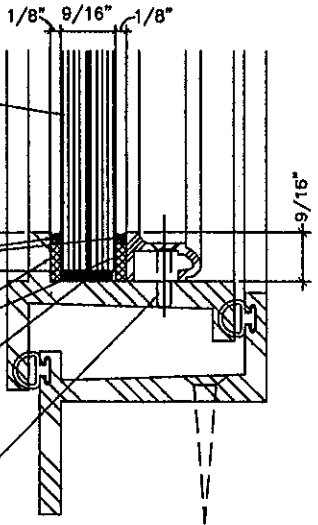
9/16" SAF-GLAS IN ACCORDANCE WITH GLAZING DESCRIPTION TABLE TO THE LEFT

AFTER GLASS STOP IS SET, INSTALL CAP BEAD OF CAULK ON BOTH SIDES OF GLASS. DOW 795 1/8" X 1/8"

1/8" X 1/2" NORTON NORSEAL FOAM TAPE.

CAULK SHIM SPACE BEFORE PLACING FOAM TAPE & GLASS STOP.

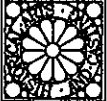
#8-32 x 1 1/4" BRONZE FHMS @ 2" FROM CORNERS AND 8" OC. MAX.

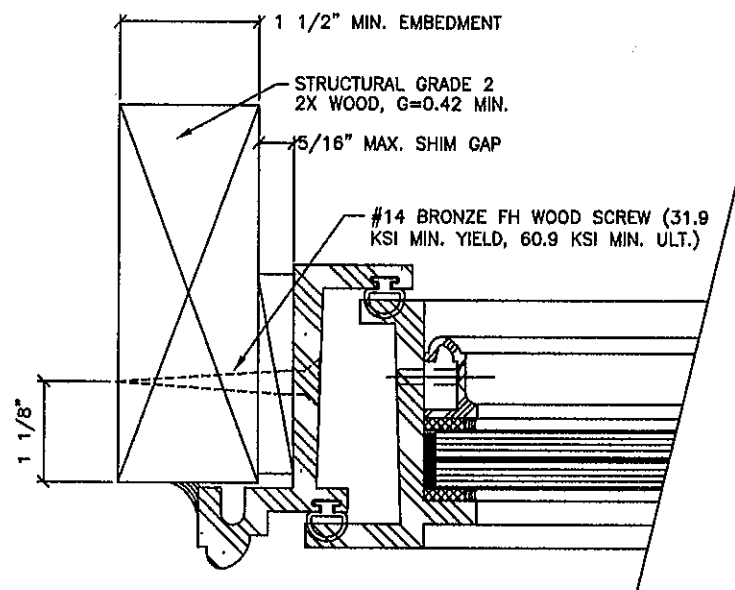


① SAF-GLAS GLAZING DETAIL
SCALE: NOT TO SCALE

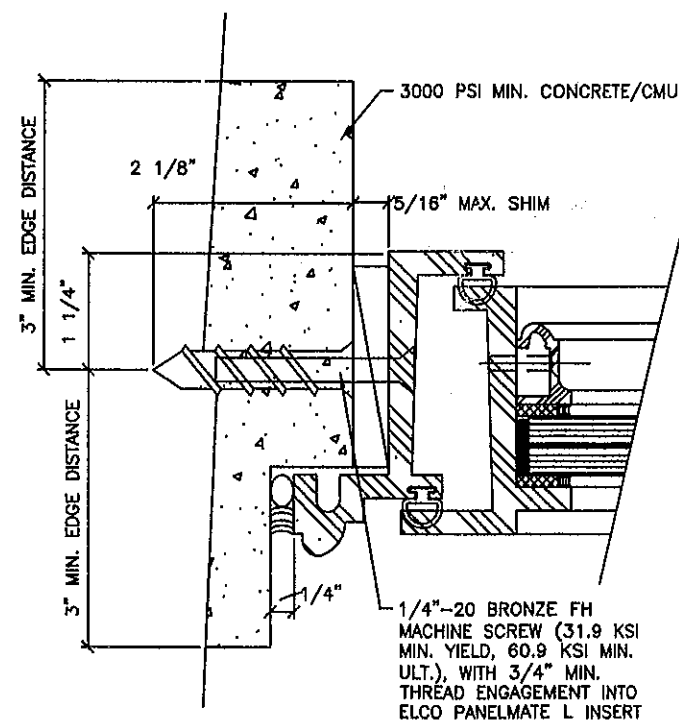
Approved as complying with the
Florida Building Code
Date 03/29/2012
NOA# 11-8202.06
Miami Dade Product Control
By [Signature]

[Signature]
SCOTT WOLTERS
FLPE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019
MAR 15 2012

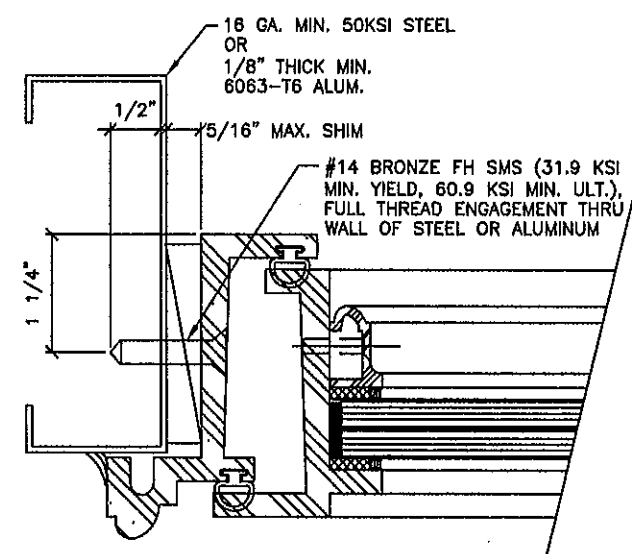
HACI 2000 SERIES BRONZE WINDOWS		HISTORICAL ARTS & CASTING, INC. 5580 WEST Bayview PARK Rd., WEST JORDAN, UT. 84081 PHONE 801-280-2400 FAX 801-280-2493	NOA# 11-0602.06		H222.1008.11
			NOTES	2/21/2011	
			REVISIONS		LAT
10F8					



1 TYPICAL INSTALLATION HEAD, SILL, JAMB
MOUNT TO WOOD
NOT TO SCALE



2 TYPICAL INSTALLATION HEAD, SILL, JAMB
MOUNT TO CONCRETE
NOT TO SCALE

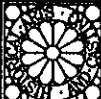


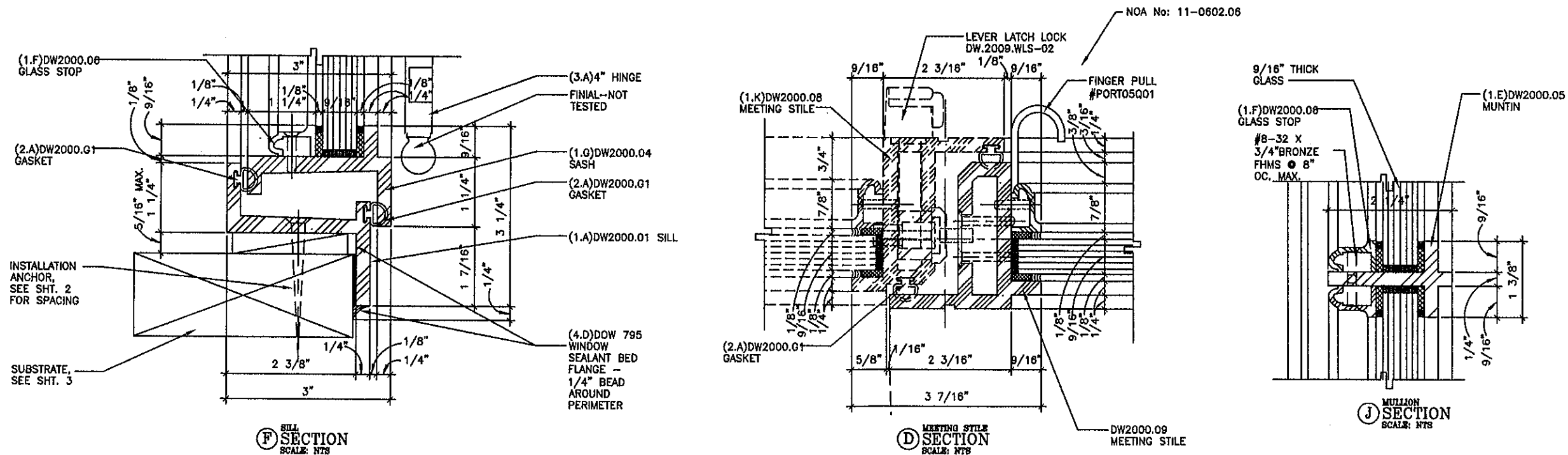
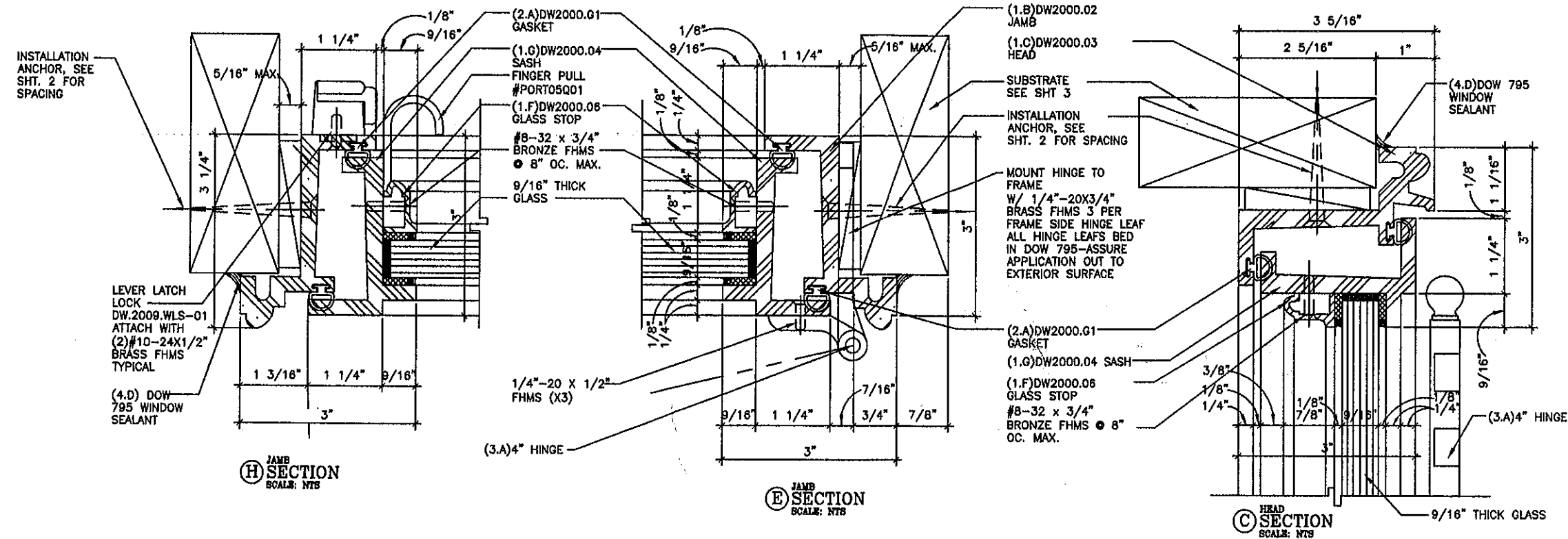
3 TYPICAL INSTALLATION HEAD, SILL, JAMB
MOUNT TO METAL
NOT TO SCALE

FASTENER SPACING PER ELEVATIONS ON SHEET 2 OF 8

Approved as complying with the
Florida Building Code
Date 03/29/2012
NOA# 11-0602.06
Miami Code Product Control
By [Signature]


[Signature]
SCOTT WOLTERS
FLPE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
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HOLLYWOOD, FL 33019
MAR 15 2012

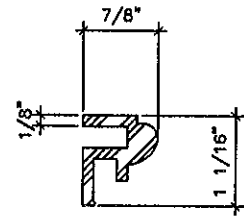
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	5580 WEST BAYVIEW PARK RD., WEST JORDAN, UT. 84081								
	PHONE 801-280-2400 FAX 801-280-2493								
	NOA# 11-0802.06								
	NOTES			REVISIONS					
	30F8								



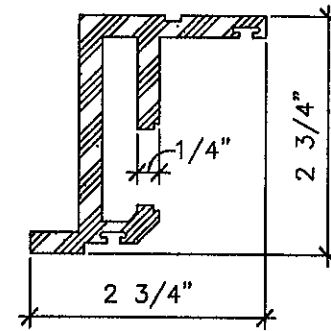
Approved as complying with the
Florida Building Code
Date **03/29/2012**
NOA# **11-0602.06**
Miami Code Product Control
By *[Signature]*

[Signature]
SCOTT WOLTERS
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MAR 15 2012

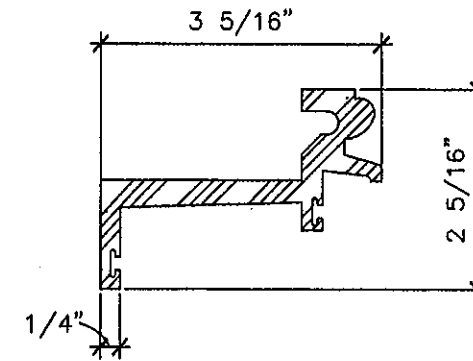
HACI 2000 SERIES BRONZE WINDOWS	HISTORICAL ARTS & CASTING, INC.		H222.1008.11	21/21/2011	IAT
	5530 WEST Bagley PARK Rd., WEST JORDAN, UT. 84081				
	PHONE 801-280-2400				
	FAX 801-280-2493				
	NOA# 11--0602.06		NOTES		REVISION
		40F8			



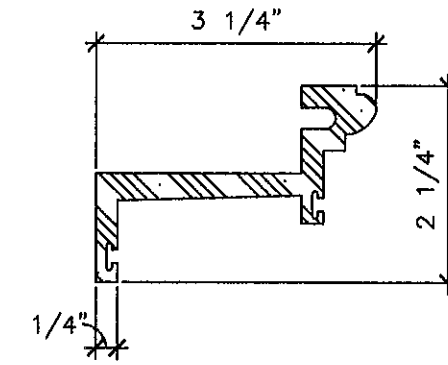
DW2000.15
13 APPLIED BRICKMOLD (1.M)
 SCALE: NTS



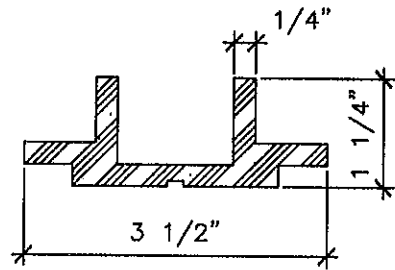
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11 INTERIOR MEETING STILE (1.K)
 SCALE: NTS



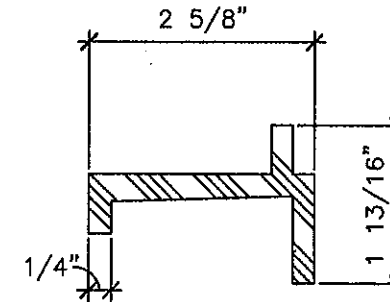
DW2000.03
7 HEAD (1.C)
 SCALE: NTS



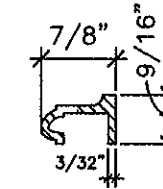
DW2000.02
3 JAMB (1.B)
 SCALE: NTS



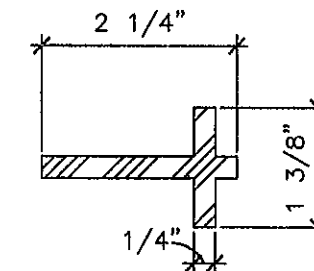
DW2000.41
8 EXTERIOR MULLION (1.H)
 SCALE: NTS



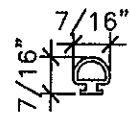
DW2000.04
6 SASH (1.J)
 SCALE: NTS



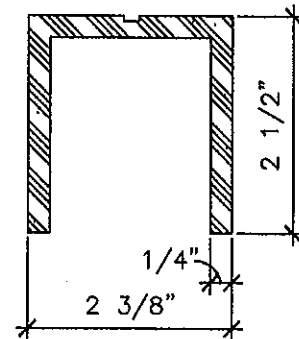
DW2000.06
2 GLASS STOP (1.F)
 SCALE: NTS



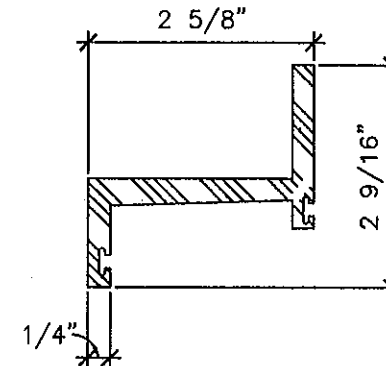
DW2000.05
1 MUNTIN (1.E)
 SCALE: NTS



DW2000.01
4 TYPICAL SILICONE GASKET (2.A)
 SCALE: NTS



DW2000.40
9 INTERIOR MULLION (1.I)
 SCALE: NTS



DW2000.01
5 SILL (1.A)
 SCALE: NTS

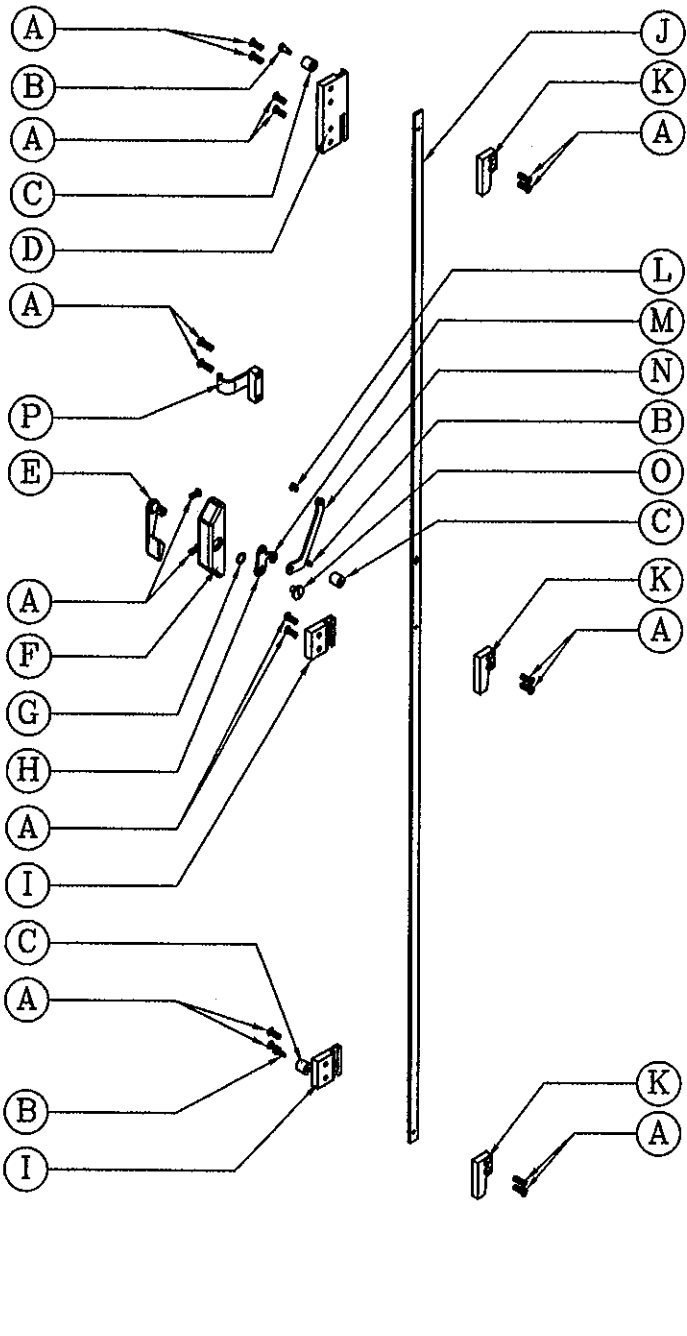
ALL METAL EXTRUSIONS
 BRONZE ALLOY 380

Approved as complying with the
 Florida Building Code
 Date **03/29/2012**
 NOA# **11-0602.06**
 Miami Date Product Control
 By *[Signature]*

[Signature]
 SCOTT WOLTERS
 FLPE# 62354
 WOLTERS ENGINEERING, INC.
 (COA# 27194)
 1271 GRANT STREET
 HOLLYWOOD, FL 33019
 MAR 15 2012

HACI 2000 SERIES BRONZE WINDOWS		HISTORICAL ARTS & CASTING, INC.		NOTES		REVISIONS	
5580 WEST BAYVIEW PARK RD., WEST JORDAN, UT. 84081		PHONE 801-280-2400		FAX 801-280-2493		NOA# 11-0602.06	
H222.1008.11		2/21/2011		LAT		50F8	

DW.2009.WLS-01	
NUMBER	PART
A	#10 FHMS
B	3/16" X 3/8"-8/32" ROLLER SHOULDER SCREW
C	ROLLER
D	TOP GUIDE
E	LEVER
F	WINDOW LEVER HOUSING
G	WASHER
H	LEVER LINKAGE
I	GUIDE
J	ROD
K	ROLLER DOCK
L	#10 PHMS
M	WASHER
N	ROD LINKAGE ARM
O	BOLT
P	FINGER PULL



EXPLODED

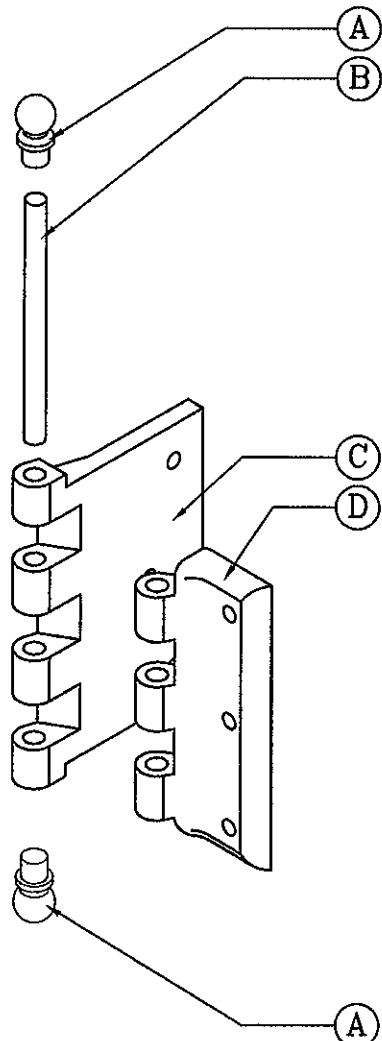


SIDE



ELEVATION

2 FOR USE WITH SECTION H, SHEET 4
HACI-MULTI ROLLER LEVER LATCH
DW.2009.WLS-01
SCALE: 6"=1'-0"



1 HACI
4" HINGE
SCALE: NTS

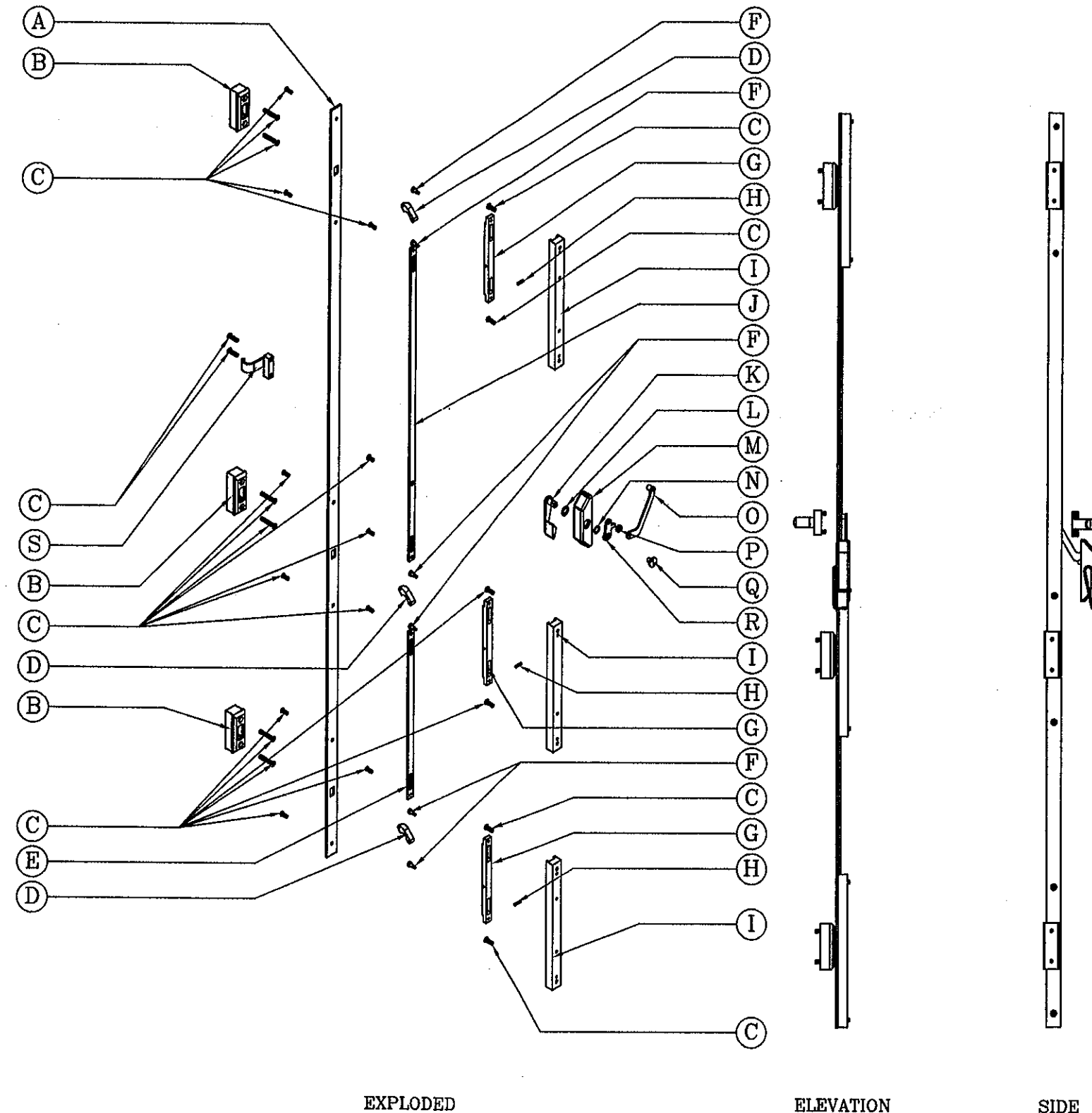
4" HINGE	
NUMBER	PART
A	FINIAL-NOT TESTED
B	1/4" S.S. HINGE PIN
C	JAMB LEAF
D	SASH LEAF

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Miami Date Product Control
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DW.2009.WLS-02	
NUMBER	PART
A	ROD
B	RECEIVER
C	#10 FHMS
D	DOG
E	BOTTOM ROD
F	3/16" X 3/8"-8/32"
	SHOULDER SCREW
G	SLIDE BLOCK
H	DOG PIN
I	NEST
J	TOP ROD
K	LEVER
L	WASHER
M	WINDOW LEVER HOUSING
N	WASHER
O	ROD LINKAGE ARM
P	WASHER
Q	BOLT
R	LEVER LINKAGE
S	FINGER PULL



EXPLODED


ELEVATION

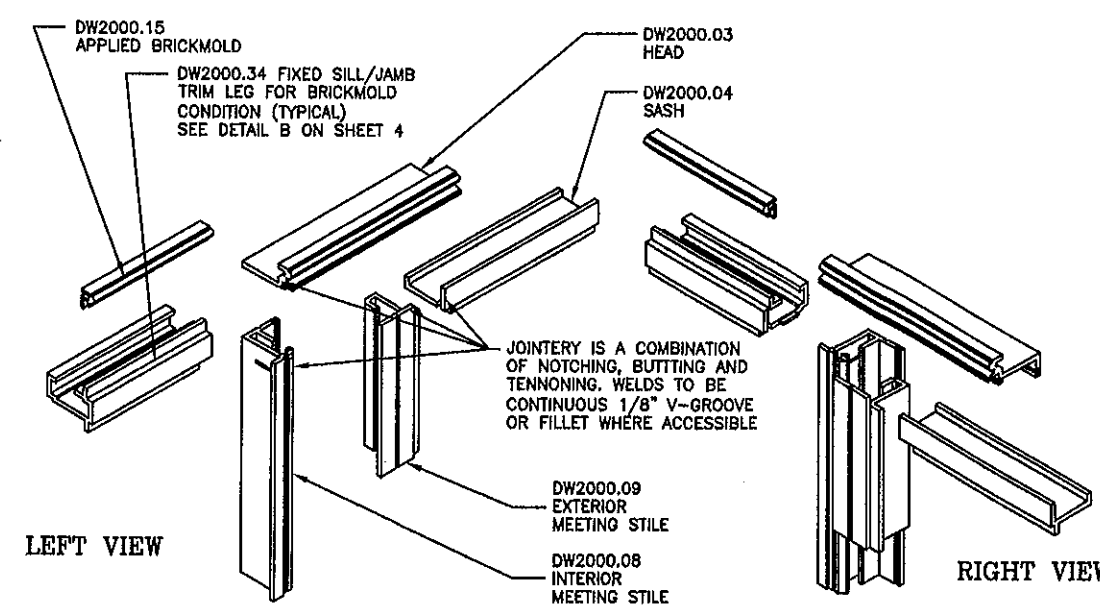
SIDE

FOR USE WITH SECTION D, SHEET 4
HACI-MULTI DOG LEVER LATCH
DW.2009.WLS-02
SCALE: 3/4"=1'-0"

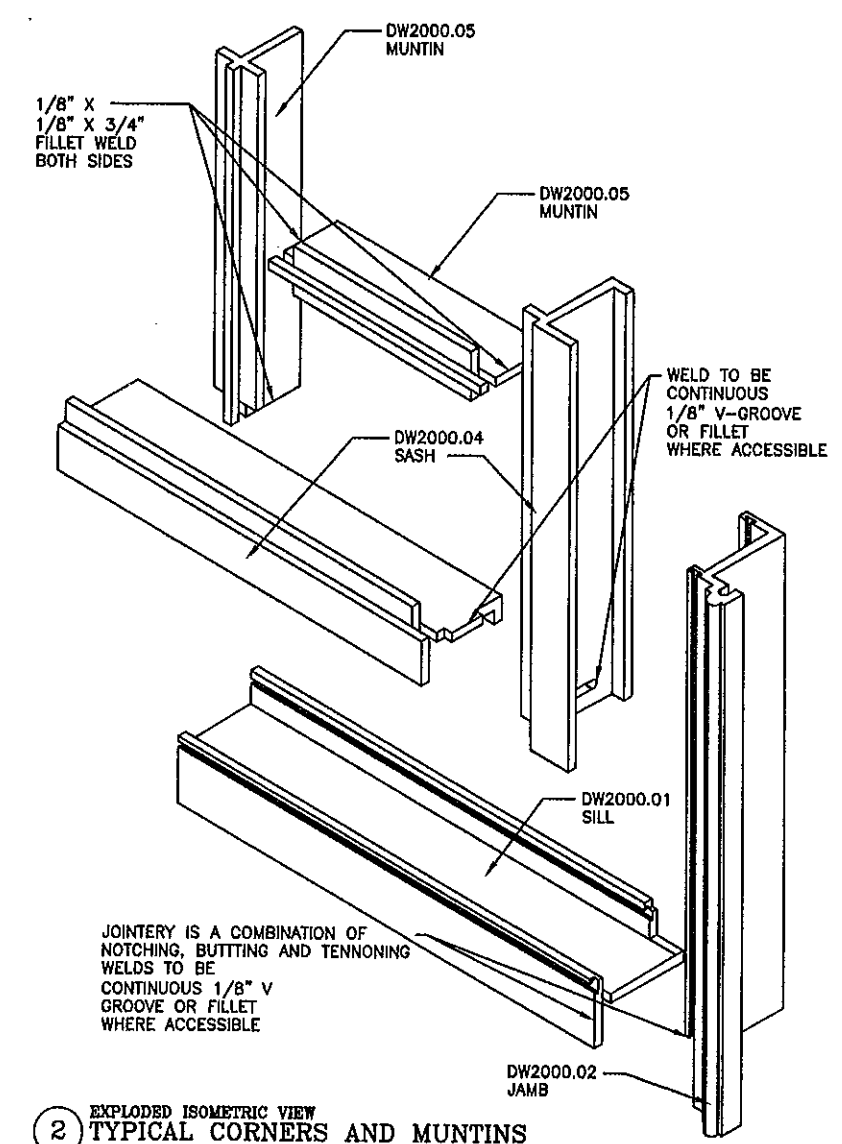
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Date 03/29/2012
NOA# 11-0202.06
Miami-Dade Product Control
By [Signature]

[Signature]
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HOLLYWOOD, FL 33019
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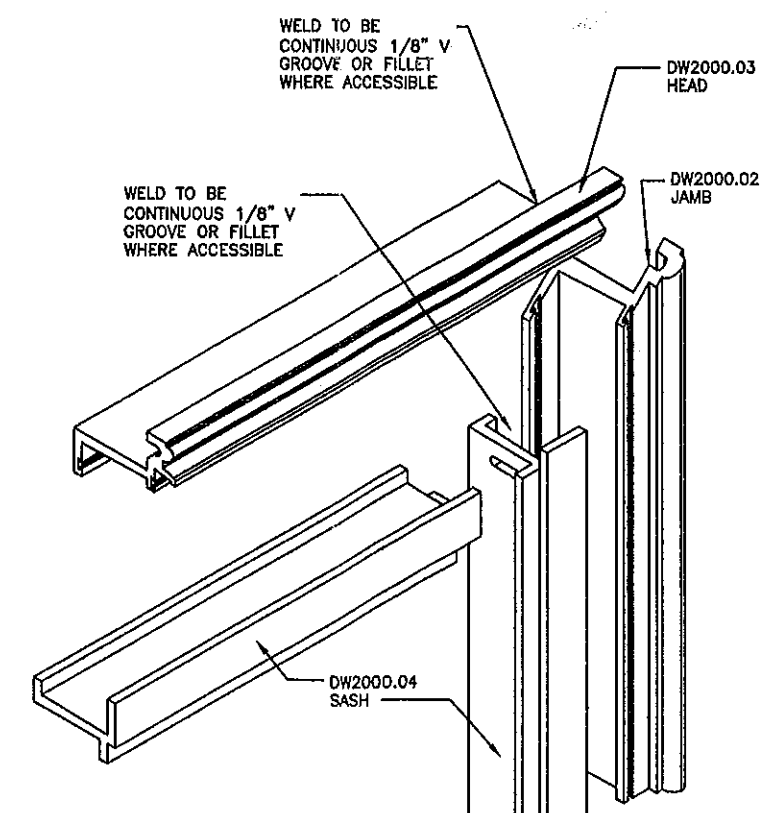
	HACI 2000 SERIES BRONZE WINDOWS		HISTORICAL ARTS & CASTING, INC.		H222.1008.11	2/21/2011	LAT
	5580 WEST Bagley PARK Rd., WEST JORDAN, UT. 84081						
	PHONE 801-280-2400 FAX 801-280-2493						
	NOA# 11-0802.06						
NOTES			REVISIONS				
70F8							



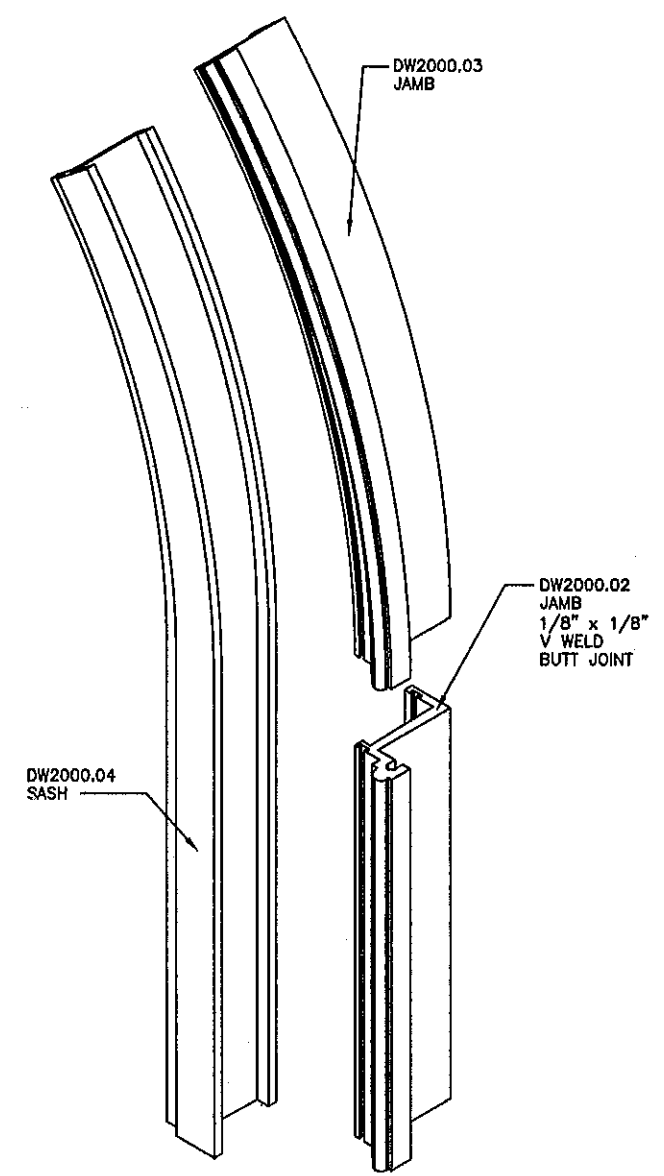
1 EXPLODED ISOMETRIC VIEW
TYPICAL FIXED TO CASEMENT MEETING RAIL
SCALE: NTS



2 EXPLODED ISOMETRIC VIEW
TYPICAL CORNERS AND MUNTINS
SCALE: NTS



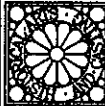
3 EXPLODED ISOMETRIC VIEW
ALTERNATE CORNER
SCALE: NTS



4 EXPLODED ISOMETRIC VIEW
TYPICAL CURVED HEAD TO JAMB
SCALE: NTS

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NOA# 11-0602.06
Miami Dade Product Control
By [Signature]

[Signature]
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(COA# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019
MAR 15 2012

HACI 2000 SERIES BRONZE WINDOWS	HISTORICAL ARTS & CASTING, INC.		H222.1008.11	2/21/2011	LAT
	5580 WEST Bayley PARK Rd., WEST JORDAN, Ut. 84081				
	PHONE 801-280-2400 FAX 801-280-2493				
	NOA# 11-0602.06				
	NOTES				
	REVISIONS				
		80F8			